

What is claimed is:

CLAIMS

Sub Obj 1.

5 A cable, comprising:
a plurality of transmission media;
a conductive core having a surface defining channels within which each of the plurality of transmission media are individually disposed; and
an outer jacket maintaining the plurality of data transmission media in position with respect to the core.

10 2. The cable of claim 1, wherein the channels of the conductive core are separated by fins, the cable further comprising:
a conductive shield covering the channels and in contact with the fins.

15 3. The cable of claim 1, wherein the conductive core includes a central cavity.

4. The cable of claim 3, further comprising a fiber optic element disposed within the central cavity.

5. The cable of claim 3, further comprising a drain wire disposed within the central cavity.

20 *Sub Obj 6.* 6. The cable of claim 1, wherein the conductive core is formed principally of a solid fluoropolymer.

7. The cable of claim 1, wherein the conductive core is formed principally of a foamed fluoropolymer.

25 8. The cable of claim 1, wherein the conductive core is formed principally of polyvinyl chloride.

30 9. The cable of claim 8, wherein the polyvinyl chloride is foamed.

10. The cable of claim 8, wherein the polyvinyl chloride is solid.

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11. The cable of claim 1, wherein the conductive core is formed of any two or more of a solid fluoropolymer, a foamed fluoropolymer, solid polyvinyl chloride and foamed polyvinyl chloride.

5 12. A cable, comprising:
a plurality of transmission media radially disposed about a finned element whose fins electromagnetically shield each of the plurality of transmission media from each other of the plurality of transmission media.

10 13. The cable of claim 12, further comprising:
a conductive shield disposed about the cable.

14. The cable of claim 13, wherein the conductive shield is in contact with the fins of the finned element.

15 15. The cable of claim 12, wherein the finned element is a fire resistant plastic.

16. The cable of claim 15, wherein the fire resistant plastic includes at least one of the group of a solid fluoropolymer, a foamed fluoropolymer, solid polyvinyl chloride, foamed polyvinyl chloride, a solid polyolefin and a foamed polyolefin.

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